

## CORRECCION DEL TRABAJO

### - FUNCIÓN DE PRODUCCIÓN

*Mal*

$$\begin{array}{lcl}
 153233'4 = 17'32 W + 2849'3 i - C & \left. \begin{array}{l} \\ \\ \end{array} \right\} & i = 19'83 \\
 178195'62 = 18'68 W + 3239'8 i - C & & W = 13405 \\
 111693'64 = 3'34 W + 10225'9 i - C & & C = 135414'3
 \end{array}$$

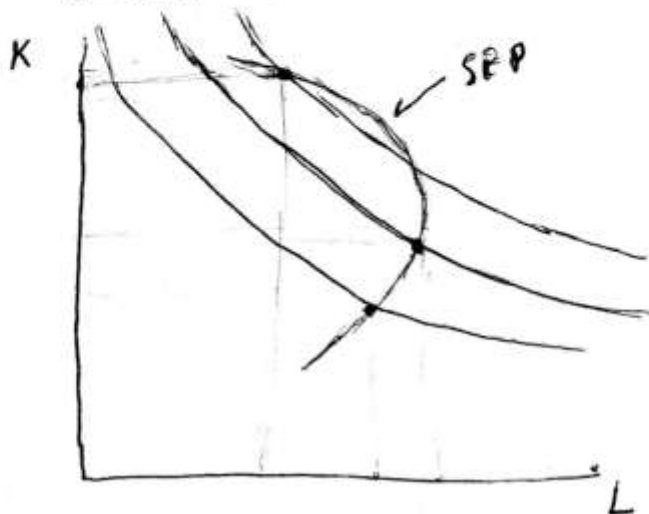
$$Q = 13405 L + 19'83 K - 135414'3$$

### - RECTA ISOCOSTE

$$\begin{array}{lcl}
 246125'1 = 17'32 W + 2849 i + C & \left. \begin{array}{l} \\ \\ \end{array} \right\} & i = 7'91 \\
 49315'4 = 18'68 W + 3239'8 i + C & & W = 72'5 \\
 51859'62 = 3'34 W + 10225'9 i + C & & C = 22331'4
 \end{array}$$

$$C = 72'5 L + 7'91 K + 22331'4$$

### - SECTOR DE EXPANSION DE LA PRODUCCIÓN



luego la SEP es:

$$\underline{\underline{K = a + bL + cL^2}}$$

Calculo matematico de la SEP:

$$\left. \begin{aligned} 28493 &= a + 18325 + 1832^2 C \\ 32398 &= a + 18685 + 1868^2 C \\ 102259 &= a + 3345 + 334^2 C \end{aligned} \right\} \begin{aligned} b &= 566 \\ a &= 5493 \\ c &= 594 \end{aligned}$$

$$SEP \equiv K = 5493 + 566L + 594L^2$$

### FUNCION DE COSTE TOTAL

$$\left. \begin{aligned} q &= 13405L + 1983K - 1354143 \\ C &= 725L + 791K + 223314 \\ K &= 5493 + 566L + 594L^2 \end{aligned} \right\} \Rightarrow$$

$$\left. \begin{aligned} q &= 145274L + 1178L^2 - 134325 \\ C &= 52021L + 4698L^2 - 223314 \end{aligned} \right\}$$

Despejamos L en la primera función:

$$L = \frac{-145274 \pm \sqrt{2743392908 + 47129}}{2356}$$

Lo sustituimos en la segunda ecuación y obtenemos el coste total.

$$CT = 22.5 \left[ \frac{5.2t + \left[ \frac{b_{2.1} + b + 8.0626339290'8 + 4t + 2}{2.532} \right]}{148224 + \sqrt{224339290'8 + 4t + 2}} \right] + 15.8 \left[ \frac{-148224 + \sqrt{224339290'8 + 4t + 2}}{2.532} \right] + 2255.74$$

FUNCIÓN DE OFERTA:

$$S_i \equiv P = CM_a = 471'29 + 41150893'6$$

Donde  $q = -4443'82229p + 146158'8954$

$$E_q \left\{ \begin{array}{l} p = 471'29 + 41150893'6 \\ q = 1565851291 + 182283466p - 146158'8954 \end{array} \right.$$

~~$$\left\{ \begin{array}{l} q = -4443'82229p + 146158'8954 \\ q = 1565851291 + 182283466p - 146158'8954 \end{array} \right. \quad b_{2.1} = 2329532'499$$~~

